



## LED DISPLAYS:ELS-3101A/B SERIES

### ELECTRICAL AND OPTICAL CHARACTERISTICS (Ta=25℃)

| Part No.    | Emitt d<br>Color | PeakWave<br>Length | Epoxy<br>Color | Surface<br>Color | Common<br>Electrode | $\Delta\lambda$<br>(nm) | Pd<br>(mW) | If<br>(mA) | Peak<br>(mA) | Vf(V) |     | IV(mcd) |     |
|-------------|------------------|--------------------|----------------|------------------|---------------------|-------------------------|------------|------------|--------------|-------|-----|---------|-----|
|             |                  |                    |                |                  |                     |                         |            |            |              | Min   | Max | Min     | Max |
| ELS-3101AS  | Red              | 620-630            | White          | Black            | Cathode             | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 82      | 92  |
| ELS-3101AO  | Orange           | 600-610            | White          | Black            | Cathode             | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 85      | 95  |
| ELS-3101AY  | Yellow           | 585-595            | White          | Black            | Cathode             | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 88      | 98  |
| ELS-3101AG  | Olivine          | 565-575            | White          | Black            | Cathode             | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 10      | 20  |
| ELS-3101AGG | Emerald          | 515-525            | White          | Black            | Cathode             | 10                      | 55         | 20         | 60           | 2.6   | 2.8 | 215     | 225 |
| ELS-3101AB  | Blue             | 460-470            | White          | Black            | Cathode             | 10                      | 55         | 20         | 60           | 2.6   | 2.8 | 15      | 25  |
| ELS-3101AW  | White            | -                  | -              | Black            | Cathode             | -                       | 55         | 20         | 60           | 2.6   | 2.8 | -       | -   |
| ELS-3101BS  | Red              | 620-630            | White          | Black            | Anode               | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 82      | 92  |
| ELS-3101BO  | Orange           | 600-610            | White          | Black            | Anode               | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 85      | 95  |
| ELS-3101BY  | Yellow           | 585-595            | White          | Black            | Anode               | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 88      | 98  |
| ELS-3101BG  | Olivine          | 565-575            | White          | Black            | Anode               | 10                      | 35         | 20         | 60           | 1.8   | 2.0 | 10      | 20  |
| ELS-3101BGG | Emerald          | 515-525            | White          | Black            | Anode               | 10                      | 55         | 20         | 60           | 2.6   | 2.8 | 215     | 225 |
| ELS-3101BB  | Blue             | 460-470            | White          | Black            | Anode               | 10                      | 55         | 20         | 60           | 2.6   | 2.8 | 15      | 25  |
| ELS-3101BW  | White            | -                  | -              | Black            | Anode               | -                       | 55         | 20         | 60           | 2.6   | 2.8 | -       | -   |

### ABSOLUTE MAXIMUN RATINGS (Ta=25℃)

| ReverseVoltage | ReverseCurrent<br>(V <sub>R</sub> =5V) | OperatingTemperature<br>Range | StorageTemperature<br>Range | Lead Soldering<br>Temperature |
|----------------|----------------------------------------|-------------------------------|-----------------------------|-------------------------------|
| 5V             | 20 $\mu$ A                             | -20℃~+80℃                     | -30℃~+80℃                   | 255 ℃ For 3 seconds           |

### PACKAGE DIMENSION (Unit: millimeters, Tolerance : ±0.25mm)

